

claim 3. Claim 3 depends from claim 1, and as explained above, claim 1 is fully supported by the '484 Patent. The additional limitations of claim 3 are supported at least in Fig. 1 and column 5, lines 50-58 of the '484 Patent.

Claim 4 enjoys a priority date at least as early as the filing date of the '484 Patent, since the '484 Patent shows, at least in Fig. 1 and column 5, lines 58-62, each of the elements of claim 4. Claim 4 depends from claim 3, which in turn depends from claim 1, and as explained above, both claims 1 and 3 are fully supported by the '484 Patent. The additional limitations of claim 4 are supported at least in Fig. 1 and column 5, lines 58-62 of the '484 Patent.

Claim 5 enjoys a priority date at least as early as the filing date of the '484 Patent, since the '484 Patent shows, at least in column 1, lines 41-50, each of the elements of claim 5. Claim 5 depends from claim 1, and as explained above, claim 1 is fully supported by the '484 Patent. The additional limitations of claim 5 are supported at least in column 1, lines 41-50 of the '484 Patent.

Claim 6 enjoys a priority date at least as early as the filing date of the '484 Patent, since the '484 Patent shows, at least in column 2, line 66 to column 3, line 7 each of the elements of claim 6. Claim 6 depends from claim 5, which in turn depends from claim 1, and as explained above, both claims 5 and 1 are fully supported by the '484 Patent. The additional limitations of claim 6 are supported at least in column 2, line 66 to column 3, line 7 of the '484 Patent.

Claim 7 enjoys a priority date at least as early as the filing date of the '484 Patent, since the '484 Patent shows, at least in Fig. 5c and column 9, lines 24-27, each of the elements of claim. Claim 7 depends from claim 5, which in turn depends from claim 1, and as explained above, both claims 5 and 1 are fully supported by the '484 Patent. The additional limitations of claim 7 are supported at least in Fig. 5c and column 9, lines 24-27 of the '484 Patent.

Claim 8 enjoys a priority date at least as early as the filing date of the '484 Patent, since the '484 Patent shows, at least in column 3, lines 3-6, each of the elements of claim 8. Claim 8 depends from claim 6, which in turn depends from claim 5, which depends from claim 1, and as explained above, claims 6, 5 and 1 are fully supported by the '484 Patent. The additional limitations of claim 8 are supported at least in column 3, lines 3-6 of the '484 Patent.

Claim 9 enjoys a priority date at least as early as the filing date of the '484 Patent, since the '484 Patent alone shows, at least in column 3, line 38 to column 4, line 8, each of the elements of claim 9. Claim 9 also enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent alone shows, at least in Fig. 20 and column 47, line 20 to column 48, line 18, each of the elements of claim 9.

Claim 11 enjoys a priority date at least as early as the filing date of the '484 Patent, since the '484 Patent shows, at least in Fig. 1 and column 5, lines 50-58., each of the elements of claim 11. Claim 11 depends from claim 9, and as explained above, claim 9 is fully supported by the '484 Patent. The additional limitations of claim 11 are supported at least in Fig. 1 and column 5, lines 50-58 of the '484 Patent.

Claim 12 enjoys a priority date at least as early as the filing date of the '484 Patent, since the '484 Patent shows, at least in Fig. 1 and column 5, lines 29-35, each of the elements of claim 12. Claim 12 depends from claim 9, and as explained above, claim 9 is fully supported by the '484 Patent. The additional limitations of claim 12 are supported at least in Fig. 1 and column 5, lines 29-35 of the '484 Patent.

Claim 13 enjoys a priority date at least as early as the filing date of the '484 Patent, since the '484 Patent shows, at least in Fig. 6 and column 9, lines 63-67, and in Fig. 3 and column 7, lines 41-45, each of the elements of claim 13. Claim 13 depends from claim 12, which in turn depends from claim 9, and as explained above, claims 12 and 9 are both fully supported by the '484 Patent. The additional limitations of claim 13 are supported at least in Fig. 6 and column 9, lines 63-67, and in Fig. 3 and column 7, lines 41-45 of the '484 Patent.

Claim 14 enjoys a priority date at least as early as the filing date of the '484 Patent, since the '484 Patent shows, at least in Fig. 1 and column 7, lines 50-54, each of the elements of claim 14. Claim 14 depends from claim 9, and as explained above, claim 9 is fully supported by the '484 Patent. The additional limitations of claim 14 are supported at least in Fig. 1 and column 7, lines 50-54 of the '484 Patent.

Claim 15 enjoys a priority date at least as early as the filing date of the '484 Patent, since the '484 Patent shows, at least in Fig. 1 and column 7, lines 44-54, and in column 3, lines 3-6, each of the elements of claim 15. Claim 15 depends from claim 14, which in turn

depends from claim 9, and as explained above, claims 14 and 9 are fully supported by the '484 Patent. The additional limitations of claim 15 are supported at least in Fig. 1 and column 7, lines 44-54, and in column 3, lines 3-6 of the '484 Patent.

Claim 16 enjoys a priority date at least as early as the filing date of the '484 Patent, since the '484 Patent alone shows, at least in column 3, lines 8-25 and 47-67, each of the elements of claim 16. Claim 16 also enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent alone shows, at least in Fig. 20 and column 47, line 20 to column 48, line 18, each of the elements of claim 16.

Claim 17 enjoys a priority date at least as early as the filing date of the '484 Patent, since the '484 Patent shows, at least in Fig. 3 and column 6, lines 38-46, each of the elements of claim 17. Claim 17 depends from claim 16, and as explained above, claim 16 is fully supported by the '484 Patent. The additional limitations of claim 17 are supported at least in Fig. 3 and column 6, lines 38-46 of the '484 Patent.

Claim 18 enjoys a priority date at least as early as the filing date of the '484 Patent, since the '484 Patent shows, at least in Fig. 3 and column 6, lines 38-48, each of the elements of claim 18. Claim 18 depends from claim 17, which in turn depends from claim 16, and as explained above, both claims 17 and 16 are fully supported by the '484 Patent. The additional limitations of claim 18 are supported at least in Fig. 3 and column 6, lines 38-48 of the '484 Patent.

Claim 19 enjoys a priority date at least as early as the filing date of the '484 Patent, since the '484 Patent shows, at least in Fig. 6 and column 10, lines 31-39, each of the elements of claim 19. Claim 19 depends from claim 16, and as explained above, claim 16 is fully supported by the '484 Patent. The additional limitations of claim 19 are supported at least in Fig. 6 and column 10, lines 31-39 of the '484 Patent. Claim 19 also enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent shows, at least in Fig. 20 and column 47, line 20 to column 48, line 18, each of the elements of claim 19. Claim 19 depends from claim 16, and as explained above, claim 16 is fully supported by the '593 Patent. The additional limitations of claim 19 are supported at least in Fig. 20 and column 47, line 20 to column 48, line 18 of the '593 Patent.

Claim 20 enjoys a priority date at least as early as the filing date of the '484 Patent, since the '484 Patent shows, at least in Fig. 6 and column 10, lines 31-43, each of the elements of claim 20. Claim 20 depends from claim 19, which in turn depends from claim 16, and as explained above, both claims 19 and 16 are fully supported by the '484 Patent. The additional limitations of claim 20 are supported at least in Fig. 6 and column 10, lines 31-43 of the '484 Patent.

Claim 21 enjoys a priority date at least as early as the filing date of the '484 Patent, since the '484 Patent alone shows, at least in Fig. 3 and column 6, lines 38-48, each of the elements of claim 21. Claim 21 depends from claim 16, and as explained above, both claim 16 is fully supported by the '484 Patent. The additional limitations of claim 21 are supported at least in Fig. 3 and column 6, lines 38-48 of the '484 Patent. Claim 21 also enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent alone shows, at least in Fig. 20 and column 47, line 20 to column 48, line 18, each of the elements of claim 21. Claim 21 depends from claim 16, and as explained above, claim 16 is fully supported by the '593 Patent. The additional limitations of claim 21 are supported at least in Fig. 20 and column 47, line 20 to column 48, line 18 of the '593 Patent.

Claim 22 enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent shows, at least in Fig. 20 and column 47, lines 39-45, each of the elements of claim 22. Claim 22 is dependent from claim 21 that in turn is dependent from claim 16, and as explained above, claims 16 and 21 also enjoy a priority date at least as early as the filing date of '593 patent. The additional limitations of claim 22 are supported at least in Fig. 20 and column 47, lines 39-45 of the '593 Patent.

Claim 23 enjoys a priority date at least as early as the filing date of the '484 Patent, since the '484 Patent shows, at least in Fig. 1 and column 5, lines 48-53, each of the elements of claim 23. Claim 23 is dependent from claim 21 that in turn is dependent from claim 16, and as explained above, claims 21 and 16 also enjoy a priority date at least as early as the filing date of '484 patent. The additional limitations of claim 23 are supported at least in Fig. 1 and column 5, lines 48-53 of the '484 Patent.

Claim 24 enjoys a priority date at least as early as the filing date of the '484 Patent, since the '484 Patent shows, at least in column 5, lines 48-53, each of the elements of claim 24. Claim 24 depends from claim 16, and as explained above, claim 16 is fully supported by the '484 Patent. The additional limitations of claim 24 are supported at least in column 5, lines 48-53 of the '484 Patent.

Claim 25 enjoys a priority date at least as early as the filing date of the '484 Patent, since the '484 Patent shows, at least in column 2, line 66 to column 3 line 7, each of the elements of claim 25. Claim 25 depends from claim 16, and as explained above, claim 16 is fully supported by the '484 Patent. The additional limitations of claim 25 are supported at least in column 2, line 66 to column 3 line 7 of the '484 Patent.

Claim 26 enjoys a priority date at least as early as the filing date of the '484 Patent, since the '484 Patent alone shows, at least in column 5, lines 53-58 and in column 3, lines 8-25 and 47-67, each of the elements of claim 26. Claim 26 also enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent alone shows, at least in Fig. 20 and column 47, line 20 to column 48, line 18, each of the elements of claim 26.

Claim 27 enjoys a priority date at least as early as the filing date of the '484 Patent, since the '484 Patent shows, at least in column 5, lines 23-29 and 53-58, each of the elements of claim 27. Claim 27 depends from claim 26, and as explained above, claim 26 is fully supported by the '484 Patent. The additional limitations of claim 27 are supported at least in column 5, lines 23-29 and 53-58 of the '484 Patent. Claim 27 also enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent alone shows, at least in Fig. 20 and column 47, line 20 to column 48, line 18, each of the elements of claim 27. Claim 27 depends from claim 26, and as explained above, claim 26 is fully supported by the '593 Patent. The additional limitations of claim 27 are supported at least in Fig. 20 and column 47, line 20 to column 48, line 18 of the '593 Patent.

Claim 28 enjoys a priority date at least as early as the filing date of the '484 Patent, since the '484 Patent alone shows, at least in column 5, lines 53-58 and in column 6, lines 38-48, each of the elements of claim 28. Claim 28 depends from claim 27, which in turn depends from claim 26, and as explained above, claims 27 and 26 are fully supported by the '484

Patent. The additional limitations of claim 28 are supported at least in column 5, lines 53-58 and in column 6, lines 38-48, of the '484 Patent. Claim 28 also enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent alone shows, at least in Fig. 20 and column 27, lines 34-51 and in column 28, lines 59-64, each of the elements of claim 28. Claim 28 depends from claim 27, which in turn depends from claim 26, and as explained above, claims 27 and 26 are fully supported by the '593 Patent. The additional limitations of claim 28 are supported at least in Fig. 20 and column 27, lines 34-51 and in column 28, lines 59-64 of the '593 Patent.

Claim 29 enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent shows, at least in Fig. 20 and column 27, lines 34-51 and in column 28, line 59 to column 30, line 14, each of the elements of claim 29. Claim 29 depends from claim 28, which in turn depends from claim 27 that depends from claim 26, and as explained above, claims 28, 27 and 26 are fully supported by the '593 Patent. The additional limitations of claim 29 are supported at least in Fig. 20 and column 27, lines 34-51 and in column 28, line 59 to column 30, line 14 of the '593 Patent.

Claim 30 is allowable over Woolston, because Woolston does not teach a manipulandum that represents a body part. The Examiner refers to Fig. 10 of Woolston as teaching at least one of said first and second manipulandiums that represents a body part. Woolston teaches a manipulandum represented by a sword apparatus held in a player's hand. Woolston does not teach a manipulandum that is a hand or any other body part. (See e.g., Fig. 10 and column 15, lines 58-66).

Claim 31 enjoys a priority date at least as early as the filing date of the '484 Patent, since the '484 Patent shows, at least in Fig. 9 and column 12, line 53 to column 13, line 62, each of the elements of claim 31. Claim 31 depends from claim 27, which in turn depends from claim 26, and as explained above, claims 27 and 26 are fully supported by the '484 Patent. The additional limitations of claim 31 are supported at least in Fig. 9 and column 12, line 53 to column 13, line 62 of the '484 Patent.

Claim 33 enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent shows, at least in Fig. 20 and column 27, lines 34-51 and in column

28, line 59 to column 30, line 14, each of the elements of claim 29. Claim 33 depends from claim 27, which in turn depends from claim 26, and as explained above, claims 27 and 26 are fully supported by the '593 Patent. The additional limitations of claim 33 are supported at least in Fig. 20 and column 27, lines 34-51 and in column 28, line 59 to column 30, line 14 of the '593 Patent.

Claim 34 enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent shows, at least in Fig. 2 and column 7, lines 14-34, each of the elements of claim 34. Claim 34 depends from claim 33, which in turn depends from claim 27, which in turn depends from claim 26, and as explained above, claims 33, 27 and 26 are fully supported by the '593 Patent. The additional limitations of claim 34 are supported at least in Fig. 2 and column 7, lines 14-34 of the '593 Patent.

Claim 35 enjoys a priority date at least as early as the filing date of the '484 Patent, since the '484 Patent alone shows, at least in column 3, line 38 to column 4, line 8, each of the elements of claim 35. Claim 35 also enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent alone shows, at least in Fig. 20 and column 47, line 20 to column 48, line 18, each of the elements of claim 35.

Claim 36 enjoys a priority date at least as early as the filing date of the '484 Patent, since the '484 Patent shows, at least in column 3, lines 47-67, in Figs. 1 and 3 and in column 6, lines 38-48, each of the elements of claim 36. Claim 36 depends from claim 35, and as explained above, claim 35 is fully supported by the '484 Patent. The additional limitations of claim 36 are supported at least in column 3, lines 47-67, in Figs. 1 and 3 and in column 6, lines 38-48 of the '484 Patent. Claim 36 also enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent alone shows, at least in Fig. 20 and column 47, line 20 to column 48, line 18, each of the elements of claim 36. Claim 36 depends from claim 35, and as explained above, claim 35 is fully supported by the '593 Patent. The additional limitations of claim 36 are supported at least in Fig. 20 and column 47, line 20 to column 48, line 18 of the '593 Patent.

Claim 37 enjoys a priority date at least as early as the filing date of the '484 Patent, since the '484 Patent shows, at least in Figs. 1 and 3 and in column 6, lines 38-48, each of

the elements of claim 37. Claim 37 depends from claim 36, which in turn depends from claim 35, and as explained above, claims 36 and 35 are fully supported by the '484 Patent. The additional limitations of claim 37 are supported at least in Figs. 1 and 3 and in column 6, lines 38-48 of the '484 Patent. Claim 37 also enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent alone shows, at least in Fig. 20 and column 47, lines 20-63, each of the elements of claim 37. Claim 37 depends from claim 36, which in turn depends from claim 35, and as explained above, claims 36 and 35 are fully supported by the '593 Patent. The additional limitations of claim 37 are supported at least in Fig. 20 and column 47, lines 20-63 of the '593 Patent.

Claim 38 enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent shows, at least in Fig. 20 and column 47, lines 46-59, each of the elements of claim 38. Claim 38 depends from claim 35, and as explained above, claim 35 is fully supported by the '593 Patent. The additional limitations of claim 38 are supported at least of the in Fig. 20 and column 47, lines 46-59 of the '593 Patent.

Claim 39 enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent shows, at least in Fig. 20 and column 48, lines 9-18, each of the elements of claim 39. Claim 39 depends from claim 38, which in turn depends from claim 35, and as explained above, claims 38 and 35 are fully supported by the '593 Patent. The additional limitations of claim 38 are supported at least in Fig. 20 and column 48, lines 9-18 of the '593 Patent.

Claim 40 enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent shows, at least in Fig. 20 and column 47, lines 38-43, each of the elements of claim 40. Claim 40 depends from claim 39 that depends from claim 38, which in turn depends from claim 35, and as explained above, claims 39, 38 and 35 are fully supported by the '593 Patent. The additional limitations of claim 40 are supported at least in Fig. 20 and column 47, lines 38-43 of the '593 Patent.

Claim 41 enjoys a priority date at least as early as the filing date of the '484 Patent, since the '484 Patent shows, at least in Fig. 6 and column 10, lines 28-29, each of the elements of claim 41. Claim 41 depends from claim 35, and as explained above, claim 35 is

fully supported by the '484 Patent. The additional limitations of claim 41 are supported at least in Fig. 6 and column 10, lines 28-29 of the '484 Patent.

Claim 42 enjoys a priority date at least as early as the filing date of the '484 Patent, since the '484 Patent shows, at least in Fig. 6 and column 9, lines 52-63, in Fig. 7 and column 10, lines 55-65, and in Fig. 9a and column 13, line 63 to column 14, line 13, each of the elements of claim 42. Claim 42 depends from claim 35, and as explained above, claim 35 is fully supported by the '484 Patent. The additional limitations of claim 42 are supported at least in Fig. 6 and column 9, lines 52-63, in Fig. 7 and column 10, lines 55-65, and in Fig. 9a and column 13, line 63 to column 14, line 13 of the '484 Patent.

Claim 43 enjoys a priority date at least as early as the filing date of the '484 Patent, since the '484 Patent shows, at least in Fig. 7 and column 10, lines 55-60, each of the elements of claim 43. Claim 43 depends from claim 42, which in turn depends from claim 35, and as explained above, claims 42 and 35 are fully supported by the '484 Patent. The additional limitations of claim 43 are supported at least in Fig. 7 and column 10, lines 55-60 of the '484 Patent.

Claim 44 enjoys a priority date at least as early as the filing date of the '484 Patent, since the '484 Patent shows, at least in Fig. 6 and column 9, line 52 to column 10, line 8, each of the elements of claim 44. Claim 44 depends from claim 1, and as explained above, claim 1 is fully supported by the '484 Patent. The additional limitations of claim 44 are supported at least in Fig. 6 and column 9, line 52 to column 10, line 8 of the '484 Patent.

Claim 45 enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent shows, at least in Fig 16 and in column 44, lines 36-40 and 45-63, each of the elements of claim 45. Claim 45 is dependent from claim 1, where all the elements of claim 1 are also supported by the '593 Patent. The additional limitations of claim 45 are supported at least in Fig 16 and in column 44, lines 36-40 and 45-63 of the '593 Patent.

Claim 46 enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent shows, at least in Fig 16 and in column 44, lines 40-43, each of the elements of claim 46. Claim 46 is dependent from claim 45, which in turn depends from claim 1, and as explained above, claims 45 and 1 are fully supported by the '593 Patent. The

additional limitations of claim 46 are supported at least in Fig 16 and in column 44, lines 40-43 of the '593 Patent.

Claim 47 enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent shows, at least in Fig 20 and in column 47, lines 59-63 and in column 48, lines 2-18, each of the elements of claim 47. Claim 47 is dependent from claim 1, and as explained above, claim 1 is fully supported by the '593 Patent. The additional limitations of claim 47 are supported at least in Fig 20 and in column 47, lines 59-63 and in column 48, lines 2-18 of the '593 Patent.

Claim 48 enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent shows, at least in Figs. 7a-7c and in column 31, lines 28-38, each of the elements of claim 48. Claim 48 is dependent from claim 1, and as explained above, claim 1 is fully supported by the '593 Patent. The additional limitations of claim 48 are supported at least in Figs. 7a-7c and in column 31, lines 28-38 of the '593 Patent.

Claim 49 enjoys a priority date at least as early as the filing date of the '484 Patent, since the '484 Patent shows, at least in Fig. 6 and column 9, line 52 to column 10, line 3, each of the elements of claim 49. Claim 49 is dependent from claim 9, and as explained above, claim 9 is fully supported by the '484 Patent. The additional limitations of claim 49 are supported at least in Fig. 6 and column 9, line 52 to column 10, line 3 of the '484 Patent.

Claim 50 is allowable over Woolston, because Woolston does not teach a gaiming system, where a position information describes a position of a body part. Woolston teaches creating and tracking a position of a virtual blade, not of a body part. (See, e.g., Fig. 10 and column 16, lines 2-14).

Claim 51 enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent shows, at least in Fig 20 and in column 47, lines 59-63 and in column 48, lines 2-18, each of the elements of claim 51. Claim 51 is dependent from claim 16, and as explained above, claim 16 is fully supported by the '593 Patent. The additional limitations of claim 51 are supported at least in Fig 20 and in column 47, lines 59-63 and in column 48, lines 2-18 of the '593 Patent.

Claim 52 enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent shows, at least in Fig 20 and in column 47, lines 59-63 and in column 48, lines 2-18, each of the elements of claim 52. Claim 52 is dependent from claim 19, and as explained above, claim 19 is fully supported by the '593 Patent. The additional limitations of claim 52 are supported at least in Fig 20 and in column 47, lines 59-63 and in column 48, lines 2-18 of the '593 Patent.

Claim 53 enjoys a priority date at least as early as the filing date of the '484 Patent, since the '484 Patent shows, at least in Fig 6 and in column 9, line 52 to column 10, line 8, each of the elements of claim 53. Claim 53 is dependent from claim 16, and as explained above, claim 16 is fully supported by the '484 Patent. The additional limitations of claim 53 are supported at least in Fig 6 and in column 9, line 52 to column 10, line 8 of the '484 Patent.

Claim 54 enjoys a priority date at least as early as the filing date of the '484 Patent, since the '484 Patent shows, at least in Fig 6 and in column 9, line 52 to column 10, line 8, each of the elements of claim 54. Claim 54 is dependent from claim 16, and as explained above, claim 16 is fully supported by the '484 Patent. The additional limitations of claim 54 are supported at least in Fig 6 and in column 9, line 52 to column 10, line 8 of the '484 Patent.

Claim 55 enjoys a priority date at least as early as the filing date of the '484 Patent, since the '484 Patent shows, at least in Fig 6 and in column 10, lines 9-24, each of the elements of claim 55. Claim 55 is dependent from claim 16, and as explained above, claim 16 is fully supported by the '484 Patent. The additional limitations of claim 55 are supported at least in Fig 6 and in column 10, lines 9-24 of the '484 Patent.

Claim 56 enjoys a priority date at least as early as the filing date of the '484 Patent, since the '484 Patent shows, at least in Fig 7a and in column 10, lines 55-60, 60-65, and in Fig. 9a and in column 13, line 63 to column 14, line 13, each of the elements of claim 56. Claim 56 is dependent from claim 55 that depends from claim 16, and as explained above, claims 55 and 16 are fully supported by the '484 Patent. The additional limitations of claim 56 are supported at least in Fig 7a and in column 10, lines 55-60, 60-65, and in Fig. 9a and in column 13, line 63 to column 14, line 13 of the '484 Patent.

Claim 57 enjoys a priority date at least as early as the filing date of the '484 Patent, since the '484 Patent alone shows, at least in column 3, line 38 to column 4, line 8, each of the elements of claim 57. Claim 57 also enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent alone shows, at least in Fig. 20 and column 47, line 20 to column 48, line 18, each of the elements of claim 57.

Claim 58 also enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent shows, at least in Fig. 20 and column 48, lines 9-18, each of the elements of claim 58. Claim 58 is dependent from claim 57, and as explained above, claim 57 is fully supported by the '593 Patent. The additional limitations of claim 58 are supported at least in Fig. 20 and column 48, lines 9-18 of the '593 Patent.

Claim 59 also enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent shows, at least in Fig. 5a and column 28, lines 23-40, each of the elements of claim 59. Claim 59 is dependent from claim 57, and as explained above, claim 57 is fully supported by the '593 Patent. The additional limitations of claim 59 are supported at least in Fig. 5a and column 28, lines 23-40 of the '593 Patent.

Claim 60 also enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent shows, at least in Fig. 2 and column 17, line 58 to column 18, line 2, each of the elements of claim 60. Claim 60 is dependent from claim 57, and as explained above, claim 57 is fully supported by the '593 Patent. The additional limitations of claim 60 are supported at least in Fig. 2 and column 17, line 58 to column 18, line 2 of the '593 Patent.

Claim 61 also enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent shows, at least in Fig. 2 and column 26, lines 39-65, each of the elements of claim 61. Claim 61 is dependent from claim 57, and as explained above, claim 57 is fully supported by the '593 Patent. The additional limitations of claim 61 are supported at least in Fig. 2 and column 26, lines 39-65 of the '593 Patent.

Claim 62 also enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent shows, at least in Fig. 2 and column 24, lines 50-57, each of the elements of claim 62. Claim 62 is dependent from claim 57, and as explained above, claim 57 is

fully supported by the '593 Patent. The additional limitations of claim 62 are supported at least in of the Fig. 2 and column 24, lines 50-57 of the '593 Patent.

Claim 63 enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent shows, at least in Fig. 19 and column 46, lines 51-67, and in Fig. 20 and column 48, lines 9-18, each of the elements of claim 63. Claim 63 is dependent from claim 57, and as explained above, claim 57 is fully supported by the '593 Patent. The additional limitations of claim 63 are supported at least in Fig. 19 and column 46, lines 51-67, and in Fig. 20 and column 48, lines 9-18 of the '593 Patent.

Claim 64 enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent shows, at least in Fig. 19 and column 46, lines 51-67, and in Fig. 20 and column 48, lines 9-18, Fig. 16 and column 44, lines 36-51, and in Fig. 17 and column 44, line 64 to column 45, line 4, each of the elements of claim 64. Claim 64 is dependent from claim 57, and as explained above, claim 57 is fully supported by the '593 Patent. The additional limitations of claim 64 are supported at least in Fig. 19 and column 46, lines 51-67, and in Fig. 20 and column 48, lines 9-18 of the '593 Patent.

Claim 65 enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent shows, at least in Fig. 16 and column 44, lines 36-51, each of the elements of claim 65. Claim 65 is dependent from claim 64 dependent from claim 57, and as explained above, claims 64 and 57 are fully supported by the '593 Patent. The additional limitations of claim 65 are supported at least in Fig. 16 and column 44, lines 36-51 of the '593 Patent.

Claim 66 enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent shows, at least in Figs. 5a and 5b and column 25, lines 16-18, each of the elements of claim 66. Claim 6 is dependent from claim 63 dependent from claim 57, and as explained above, claims 63 and 57 are fully supported by the '593 Patent. The additional limitations of claim 66 are supported at least in Figs. 5a and 5b and column 25, lines 16-18 of the '593 Patent.

Claim 67 enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent shows, at least in column 6, lines 30-40, each of the elements of

claim 67. Claim 67 is dependent from claim 66, which in turn depends from claim 63 dependent from claim 57, and as explained above, claims 66, 63 and 57 are fully supported by the '593 Patent. The additional limitations of claim 67 are supported at least in column 6, lines 30-40 of the '593 Patent.

Claim 68 also enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent shows, at least in Fig. 2 and column 28, lines 27-42, each of the elements of claim 68. Claim 68 is dependent from claim 63, which in turn depends from claim 57, and as explained above, claims 63 and 57 are fully supported by the '593 Patent. The additional limitations of claim 68 are supported at least in Fig. 2 and column 28, lines 27-42 of the '593 Patent.

Claim 69 also enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent shows, at least in Fig. 16 and column 44, lines 36-40, each of the elements of claim 69. Claim 69 is dependent from claim 68, which in turn depends from claim 63 dependent from claim 57, and as explained above, claims 68, 63 and 57 are fully supported by the '593 Patent. The additional limitations of claim 69 are supported at least in Fig. 16 and column 44, lines 36-40 of the '593 Patent.

Claim 70 also enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent shows, at least in column 33, lines 27-42, each of the elements of claim 70. Claim 70 is dependent from claim 68, which in turn depends from claim 63 dependent from claim 57, and as explained above, claims 68, 63 and 57 are fully supported by the '593 Patent. The additional limitations of claim 70 are supported at least in column 33, lines 27-42 of the '593 Patent.

Claim 71 enjoys a priority date at least as early as the filing date of the '484 Patent, since the '484 Patent alone shows, at least in column 3, line 8-25, column 3, line 47 to column 4, line 8, and in Fig. 6 and column 9, lines 63-67, each of the elements of claim 71. Claim 71 also enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent alone shows, at least in Fig. 20 and column 47, line 20 to column 48, line 18, each of the elements of claim 71.

Claim 72 enjoys a priority date at least as early as the filing date of the '484 Patent, since the '484 Patent shows, at least in column 4, lines 3-7, and in column 3, line 47-67, each of the elements of claim 72. Claim 72 depends from claim 71, and as explained above, claim 71 is fully supported by the '484 Patent. The additional limitations of claim 72 are supported at least in column 4, lines 3-7, and in column 3, line 47-67 of the '484 Patent.

Claim 73 enjoys a priority date at least as early as the filing date of the '484 Patent, since the '484 Patent shows, at least in column 4, lines 3-7, and in column 3, line 47-67, each of the elements of claim 73. Claim 73 depends from claim 71, and as explained above, claim 71 is fully supported by the '484 Patent. The additional limitations of claim 73 are supported at least in column 4, lines 3-7, and in column 3, line 47-67 of the '484 Patent.

Claim 74 enjoys a priority date at least as early as the filing date of the '484 Patent, since the '484 Patent shows, at least in column 2, lines 54-56, each of the elements of claim 74. Claim 74 depends from claim 71, and as explained above, claim 71 is fully supported by the '484 Patent. The additional limitations of claim 74 are supported at least in column 2, lines 54-56 of the '484 Patent.

Claim 75 enjoys a priority date at least as early as the filing date of the '484 Patent, since the '484 Patent shows, at least in column 3, lines 47-67, each of the elements of claim 75. Claim 75 depends from claim 71, and as explained above, claim 71 is fully supported by the '484 Patent. The additional limitations of claim 75 are supported at least in column 3, lines 47-67 of the '484 Patent.

Claim 76 enjoys a priority date at least as early as the filing date of the '484 Patent, since the '484 Patent shows, at least in column 6, lines 23-35, and 58-64, each of the elements of claim 76. Claim 76 depends from claim 73, which in turn depends from claim 71, and as explained above, claims 73 and 71 are fully supported by the '484 Patent. The additional limitations of claim 76 are supported at least in column 6, lines 23-35, and 58-64 of the '484 Patent.

Claim 78 enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent shows, at least in column 33, lines 51-64, each of the elements of

claim 78. Claim 78 depends from claim 71, and as explained above, claim 71 is fully supported by the '593 Patent. The additional limitations of claim 78 are supported at least in column 33, lines 51-64 of the '593 Patent.

Claim 79 enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent shows, at least in Fig. 2 and column 19, lines 20-49, each of the elements of claim 79. Claim 79 depends from claim 71, and as explained above, claim 71 is fully supported by the '593 Patent. The additional limitations of claim 79 are supported at least in column Fig. 2 and column 19, lines 20-49, of the '593 Patent.

Claim 80 enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent shows, at least in Fig. 2 and column 19, lines 20-49, each of the elements of claim 80. Claim 80 depends from claim 79, which in turn depends from claim 71 and as explained above, both claims 71 and 79 are fully supported by the '593 Patent. The additional limitations of claim 80 are supported at least in Fig. 2 and column 19, lines 20-49, of the '593 Patent.

Claim 81 enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent shows, at least in Fig. 2 and column 19, lines 34-49, each of the elements of claim 81. Claim 81 depends from claim 79, which in turn depends from claim 71 and as explained above, both claims 71 and 79 are fully supported by the '593 Patent. The additional limitations of claim 81 are supported at least in Fig. 2 and column 19, lines 34-49, of the '593 Patent.

Claim 82 enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent shows, at least in Fig. 2 and column 48, lines 19-23, each of the elements of claim 82. Claim 82 depends from claim 79, which in turn depends from claim 71 and as explained above, both claims 71 and 79 are fully supported by the '593 Patent. The additional limitations of claim 82 are supported at least in Fig. 2 and column 48, lines 19-23, of the '593 Patent.

Claim 83 enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent alone shows, at least in Fig. 2 and column 9, line 55 to column 10, line 23, and in Fig. 14 and column 11, lines 9-27, each of the elements of claim 83. Claim 83

also enjoys a priority date at least as early as the filing date of the '484 Patent, since the '484 Patent alone shows, at least in Fig. 3 and column 6, lines 38-65, each of the elements of claim 83.

Claim 84 enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent shows, at least in Fig. 2 and column 24, lines 50-57, each of the elements of claim 84. Claim 84 depends from claim 83 and as explained above, claim 83 is fully supported by the '593 Patent. The additional limitations of claim 84 are supported at least in Fig. 2 and column 24, lines 50-57 of the '593 Patent.

Claim 84 also enjoys a priority date at least as early as the filing date of the '484 Patent, since the '484 Patent shows, at least in column 3, lines 26-31, each of the elements of claim 84. Claim 84 depends from claim 83 and as explained above, claim 83 is fully supported by the '484 Patent. The additional limitations of claim 84 are supported at least in column 3, lines 26-31 of the '484 Patent.

Claim 85 enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent shows, at least in Fig. 2 and column 28, lines 55-65, each of the elements of claim 85. Claim 85 depends from claim 83 and as explained above, claim 83 is fully supported by the '593 Patent. The additional limitations of claim 85 are supported at least in Fig. 2 and column 28, lines 55-65 of the '593 Patent.

Claim 86 enjoys a priority date at least as early as the filing date of the '484 Patent, since the '484 Patent shows, at least in column 3, lines 26-31, each of the elements of claim 86. Claim 86 depends from claim 84, which in turn depends from claim 83 and as explained above, both claims 83 and 84 are fully supported by the '484 Patent. The additional limitations of claim 86 are supported at least in column 3, lines 26-31 of the '484 Patent.

Claim 87 enjoys a priority date at least as early as the filing date of the '484 Patent, since the '484 Patent shows, at least in column 3, lines 26-37, each of the elements of claim 87. Claim 87 depends from claim 83, and as explained above, claim 83 is fully supported by the '484 Patent. The additional limitations of claim 87 are supported at least in column 3, lines 26-37 of the '484 Patent.

Claim 88 enjoys a priority date at least as early as the filing date of the '484 Patent, since the '484 Patent shows, at least in Fig. 3 and column 7, lines 41-45, each of the

elements of claim 88. Claim 88 depends from claim 83, and as explained above, claim 83 is fully supported by the '484 Patent. The additional limitations of claim 88 are supported at least in Fig. 3 and column 7, lines 41-45 of the '484 Patent.

Claim 89 enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent shows, at least in column 3, lines 37-63, each of the elements of claim 89. Claim 89 depends from claim 83, and as explained above, claim 83 is fully supported by the '593 Patent. The additional limitations of claim 89 are supported at least in column 3, lines 37-63 of the '593 Patent.

Claim 90 enjoys a priority date at least as early as the filing date of the '484 Patent, since the '484 Patent shows, at least in column 8, lines 1-28, each of the elements of claim 90. Claim 90 depends from claim 84, which in turn depends from claim 83 and as explained above, both claims 83 and 84 are fully supported by the '484 Patent. The additional limitations of claim 90 are supported at least in column 8, lines 1-28 of the '484 Patent.

Claim 91 enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent shows, at least in Fig. 20 and column 47, line 20 to column 48, line 18, and in column 28, lines 26-42, each of the elements of claim 91.

Claim 92 enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent shows, at least in Fig. 2 and column 7, lines 14-29, each of the elements of claim 92. Claim 92 depends from claim 91, and as explained above, claim 91 is fully supported by the '593 Patent. The additional limitations of claim 92 are supported at least in Fig. 2 and column 7, lines 14-29 of the '593 Patent.

Claim 93 enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent shows, at least in Fig. 2 and column 6, lines 40-42, and in column 7, lines 30-40, each of the elements of claim 93. Claim 93 depends from claim 91, and as explained above, claim 91 is fully supported by the '593 Patent. The additional limitations of claim 93 are supported at least in Fig. 2 and column 6, lines 40-42, and in column 7, lines 30-40 of the '593 Patent.

Claim 94 enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent shows, at least in column 4, lines 9-11, each of the elements of

claim 94. Claim 94 depends from claim 93, which in turn depends from claim 91 and as explained above, both claims 91 and 93 are fully supported by the '593 Patent. The additional limitations of claim 94 are supported at least in column 4, lines 9-11.

Claim 95 enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent shows, at least in column 6, lines 30-46, each of the elements of claim 95. Claim 95 depends from claim 91, and as explained above, claim 91 is fully supported by the '593 Patent. The additional limitations of claim 95 are supported at least in column 6, lines 30-46 of the '593 Patent.

Claim 96 enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent shows, at least in column 4, lines 59-65, in column 3, lines 54-63, and in Fig. 20 and column 47, lines 29-58, each of the elements of claim 96. Claim 96 depends from claim 91, and as explained above, claim 91 is fully supported by the '593 Patent. The additional limitations of claim 96 are supported at least in column 4, lines 59-65, in column 3, lines 54-63, and in Fig. 20 and column 47, lines 29-58 of the '593 Patent.

Claim 97 enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent shows, at least in column 3, lines 45-63, each of the elements of claim 97. Claim 97 depends from claim 91, and as explained above, claim 91 is fully supported by the '593 Patent. The additional limitations of claim 97 are supported at least in column 3, lines 45-63 of the '593 Patent.

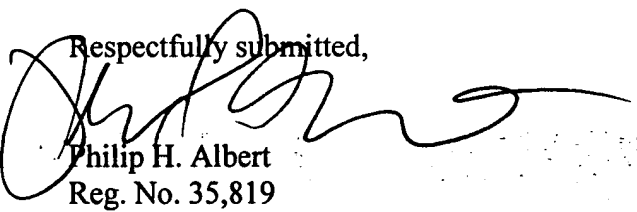
Claim 98 enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent shows, at least in Fig. 2 and column 19, lines 20-23, each of the elements of claim 98. Claim 98 depends from claim 91, and as explained above, claim 91 is fully supported by the '593 Patent. The additional limitations of claim 98 are supported at least in Fig. 2 and column 19, lines 20-23 of the '593 Patent.

Claim 99 enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent shows, at least in Fig. 2 and column 19, lines 20-28, each of the elements of claim 99. Claim 99 depends from claim 98, which in turn depends from claim 91 and as explained above, both claims 98 and 91 are fully supported by the '593 Patent. The

additional limitations of claim 99 are supported at least in Fig. 2 and column 19, lines 20-28 of the '593 Patent.

Claim 100 enjoys a priority date at least as early as the filing date of the '593 Patent, since the '593 Patent shows, at least in Fig. 2 and column 19, lines 20-50, each of the elements of claim 100. Claim 100 depends from claim 98, which in turn depends from claim 91 and as explained above, both claims 98 and 91 are fully supported by the '593 Patent. The additional limitations of claim 100 are supported at least in Fig. 2 and column 19, lines 20-50 of the '593 Patent.

Respectfully submitted,



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